TABLE 1. COMPARATIVE COSTS OF PROPOSED SOIL PREPARATION OPTIONS TO MEET SOIL DEPTH AND QUALITY STANDARD - URBAN INFILL

SITE "A": Urban Infill - Redevelopment in a Seattle Central Area

TURF AREA: 0
PLANTING BEDS AREA: 3,900 sq. ft.

ASSUMPTION (for all methods): Subgrade is compacted fine sand and gravel

METHOD 1: "MINIMAL" SOIL IMPROVEMENT	
Place 2 inches "sandy loam" fill on subgrade	
Mulch with 1 inch of medium bark	
Average Bid--Cost per square foot	**$0.44**
Range of Bids--Cost per square foot	**.39 - .50**

METHOD 2: AMEND EXISTING SUBSOIL PER "DEFAULT" SPECIFICATION	
Scarify (or till) subgrade 8 inches deep	
Rototill 3 inches compost into 5 inches of soil (approx. 9.5 inches total amended mix)	
Mulch with 2 inches of bark	
Average Bid--Cost per square foot	**$0.88**
Range of Bids--Cost per square foot	**.71 - .99**
Average Increased Cost vs. "Minimal" Method	**100%**

METHOD 3: IMPORT TOPSOIL PER "DEFAULT" SPECIFICATION (1st LIFT	
Scarify (or till) subgrade 6 inches deep	
Import 6 inches Topsoil Mix: Rototill in 1st lift into 3 inches soil, place 2nd lift	
Mulch with 2 inches of bark	
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Average Bid--Cost per square foot	**$1.32**
Range of Bids--Cost per square foot	**1.13 - 1.52**
Average Increased Cost vs. "Minimal" Method	**197%**

METHOD 4: IMPORT FULL 8" TOPSOIL (NO INCORPORATION)	
Scarify subgrade 4 inches deep	
Import 8 inches of Topsoil Mix: Place without rototilling	
Average Bid--Cost per square foot	**$1.45**
Range of Bids--Cost per square foot	**1.20-1.69**
Average Increased Cost vs. "Minimal" Method	**230%**

TABLE 2. COMPARATIVE COSTS OF PROPOSED SOIL PREPARATION OPTIONS TO MEET SOIL DEPTH AND QUALITY STANDARD - SUBURBAN DEVELOPMENT

SITE B: Suburban Residential Park - In a new subdivision in suburban King

SQUARE FEET OF TURF: 71,000 sq. ft.
SQUARE FEET OF PLANTING BEDS: 23,600 sq. ft.

METHOD 1: "MINIMAL" SOIL IMPROVEMENT			
Place 2 inches "sandy loam" fill on subgrade			
Planting Beds: Mulch with 1 inch of bark			
Average Bid--Cost per square foot	Turf 0.18	Beds 0.30	Total .21
Range of Bids--Cost per square foot	Turf .14-.21	Beds .25-.36	Total .17-.23

ASSUMPTION: Subgrade is compacted fine sand and gravel subsoil.			
METHOD 2: AMEND EXISTING SUBSOIL PER "DEFAULT" SPECIFCICATION			
Scarify subgrade 8 inches deep			
Planting Beds: Rototill 3 inches compost into 5 inches soil (approx. 9.5 inches amended mix)			
Planting Beds: Mulch with 2 inches of bark.			
Turf: Rototill 1.75 inches compost into 6.25 inches of soil (approx. 9.5 inches amended mix)			
Turf: Level, remove surface rocks larger than 1 inch diameter, water or roll to compact.			
Average Bid--Cost per square foot	Turf 0.30	Beds* 0.53	Total .37
Range of Bids--Cost per square foot	Turf .26-.34	Beds*.49-.57	Total .35-.39
Average Increased Cost vs. "Minimal" Method	67%	77%	76%

ASSUMPTION: Topsoil is sandy loam with moderate (5%) organic matter, but grades need			
METHOD 3: AMEND STOCKPILED TOPSOIL AT "CUSTOM CALCULATED" RATE			
Strip, stockpile and cover 8 inches topsoil			
Scarify subgrade 4 inches deep			
Replace stockpiled soil			
Planting Beds: Rototill 1.5 inches compost into 6.5 inches soil (approx. 9.5 inches amended mix)			
Planting Beds: Mulch with 2 inches of bark.			
Turf: No amendment necessary			
Turf: Level, remove surface rocks larger than 1 inch diameter, water or roll to compact.			
Average Bid--Cost per square foot	Turf* 0.27	Beds* .57	Total .35
Range of Bids--Cost per square foot	Turf* .25-.29	Beds* .54-.61	Total .33-.38
Average Increased Cost vs. "Minimal" Method	50%	171%	67%

ASSUMPTION Site has been cleared of brush and organic debris, and requires minimal			
METHOD4 : AMEND EXISTING TOPSOIL AT "CUSTOM CALCULATED" RATE			
Planting Beds. Rototill 2 inches compost into 6 inches of soil (approx. 9.5 inches amended mix)			
Planting Beds: Mulch with 2 inches bark.			
Turf: Rototill 1 inch compost into 7 inches of soil (approx. 9.5 inches total amended mix)			
Turf: Level, remove surface rocks larger than 1 inch diameter, water or roll to compact.			
Average Bid--Cost per square foot	Turf .20	Beds* .41	Total .28
Range of Bids--Cost per square foot	Turf .18-.24	Beds* .39-.42	.35
Average Increased Cost vs. "Minimal" Method	11%	90%	33%